

WHAT IS CLAIMED IS:

1. A water cutoff structure of a covered wire, in which a first member and a second member having first and second water cutoff portions made of a resin respectively are attached on
5 the covered wire by ultrasonic welding to thereby provide water cutoff, wherein the first member has a first locking portion and the second member has a second locking portion, and

the first and second locking portions are fitted to each other.

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2. The water cutoff structure according to Claim 1, wherein the first locking portion is formed to be along the first water cutoff portion so as to extend substantially orthogonal to a mating surface of the first member.

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3. The water cutoff structure according to Claim 1, wherein the first and second locking portions are a projected portion and a recessed portion respectively which are fitted to each other.

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4. The water cutoff structure according to Claim 1, wherein both sides of the first locking portion are provided with a first positioning projected portion and a first positioning receiving portion respectively and both sides of the second
25 locking portion are provided with a second positioning

receiving portion fitted to the first positioning projected portion and a second positioning projected portion fitted to the first positioning receiving portion, respectively.

5 5. The water cutoff structure according to Claim 3, wherein the recessed portion includes a groove portion having a narrower width than the recessed portion formed at a bottom portion of the recessed portion.

10 6. A water cutoff structure of a covered wire constituted by surrounding a plurality of core lines covered by a resin cover, in which a first member and a second member made of a resin are attached on the covered wire by ultrasonic welding to thereby provide water cutoff,

15 wherein each of the first and second members has a lateral width wider than a width when the core lines are laterally arrayed, and

molten resin is filled among the core lines to seal clearance among the core lines by applying ultrasonic
20 vibration in a state that a pressure is applied from outer sides of the covered wire.

7. The water cutoff structure according to Claim 6, wherein at least the first member of the first and second members
25 includes a recess for receiving a melted substance of the resin

cover on a mating surface of the first member to the second member, and

at least one partition wall dividing the recess in a longitudinal direction of the covered wire and sandwiching the core lines that are exposed when the resin cover is removed.

8. The water cutoff structure according to Claim 7, wherein a projected rib extended in a direction intersecting with the longitudinal direction of the covered wire is provided at a face of the partition wall in contact with the covered wire and a projection is formed on a matching surface around the recess which abut to a mating surface of the second member.

9. The water cutoff structure according to Claim 8, wherein the projected rib is extended over an entire width of the first member and an auxiliary projected rib is further provided in parallel with the projected rib.

10. The water cutoff structure according to Claim 8, wherein a peripheral edge rib is provided over an entire periphery of a peripheral edge of the matching face of the first member.

11. The water cutoff structure of a covered wire according to Claim 8, wherein a plurality of stages of the partition walls are provided at intervals thereamong dividing the recess in

three or more in the longitudinal direction of the covered wire.